

Amendment to the Claims:

Before claim 11, please delete the word "Claims" and substitute the following:

WHAT IS CLAIMED IS:

Please cancel claims 1-10, and add the following new claims 11-20:

1-10. (Canceled)

11. (New) A flow directing insert for a reactor chamber in a reactor, the reactor chamber comprising an inlet at one end of the chamber and an outlet at another end of the chamber, at least one wall of the reactor chamber including a heat conductive material or a membrane; and wherein the insert comprises a plurality of units arranged in rows, the units cooperating with walls defined by the chamber to form a channel for a fluid, the channel extending from a first side of the chamber to a second side of the chamber and back again to the first side back and forth a number of times, and wherein the units are arranged such that the fluid is forced to flow therebetween in a serpentine path.

12. (New) A flow directing insert according to claim 1, wherein each of the units defines at least one plane surface that abuts one wall of the reactor chamber or the plane surface of another unit and has an extension that is less than the distance between opposite walls of the reactor chamber.

13. (New) A flow directing insert according to claim 1, wherein each row of units is separated from the next row of units by delimiting means extending between and abutting the walls of the reactor chamber in a tightening manner.

14. (New) A flow directing insert according to claim 1, wherein a side of the unit generally opposite to the plane surface has a softly bent shape.

15. (New) A flow directing insert according to claim 1, wherein a connection between two adjacent rows of units in the reactor chamber is defined by an opening between one end of a row and a reactor side and between the next row of units and the reactor side, such that the fluid may flow from one row to the other in the created empty space.

16. (New) A flow directing insert according to claim 1, wherein at least two units in at least two rows one adjacent the other are arranged such that an opening in one unit cooperates with an opening in the delimiting means together with an opening in the second unit to create passages between the inlet at one end of the reactor chamber and a flow path in the reactor chamber or through said chamber.
17. (New) A flow directing insert according to claim 1, wherein a number of rows of units and the delimiting means are produced in one piece.
18. (New) A flow directing insert according to claim 1, wherein a number of units and limits defined thereby are produced in one piece as a column.
19. (New) A flow directing insert according to claim 1, wherein the insert is manufactured in at least one of polyetheretherketone (PEEK), carbon, glass and metal.
20. (New) A flow directing insert according to claim 4, wherein the softly bent shape is cylindrical.